



a tool to aid you in your open data adventure

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# Who am I?

Kim Ferguson

→ Research Data Management Specialist at DANS-KNAW

DANS - Data Archiving & Networked Services

Database: EASY (Data Stations soon)

→ PhD in insect genetics, postdoc in metabarcoding

→ Open Science advocate

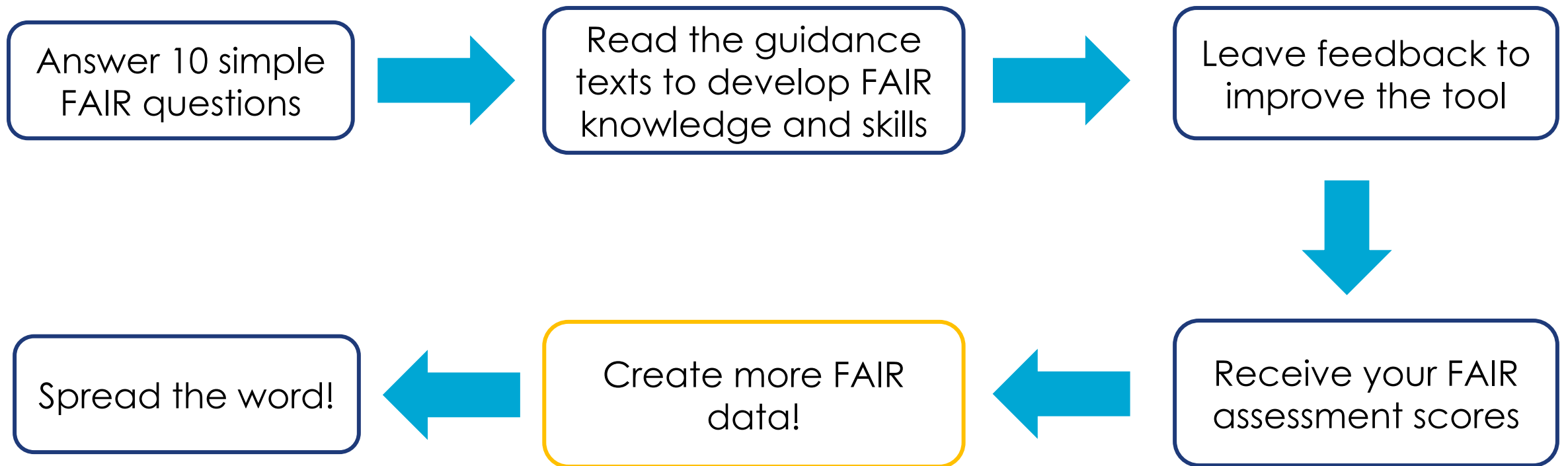
[depositing data sets](#),

[publishing preprints](#),

[open access publishing](#), and

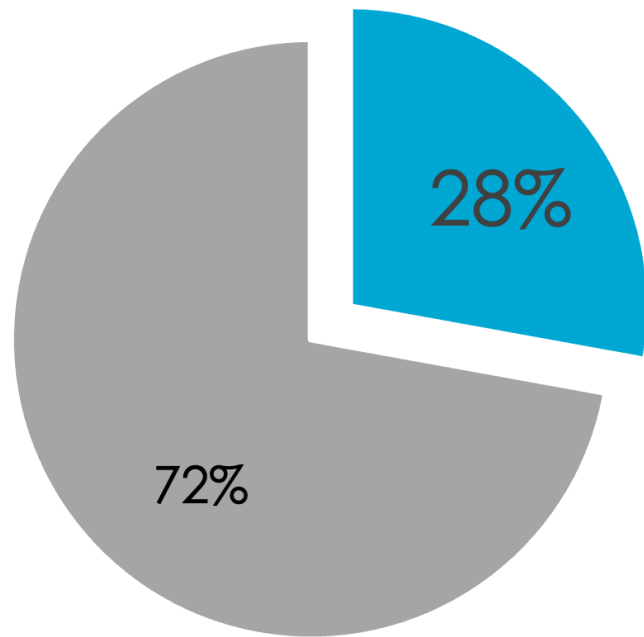
[sharing posters & presentations](#)





# Results so far

Over 900 users with a 81% usability rating!



“The FAIR principles were not familiar to me at the time when I was trying to get published. The FAIR-Aware tool is informative and easy to use as a point of reference for my further publication career”

- *Researcher from the life science domain*

■ Life Sciences    ■ Other Domains

# So what does it do?



[→ Let's take a look at FAIR Aware](#)

Note 1: The tool works best when you're about to deposit a data set, but can be useful to think about what you need to consider or when you're writing a data management plan

Note 2: A lot of the elements can be taken care of by a trustworthy repository, which we will look at shortly after

# Data repositories: good for finding data, good for storing data

What is archiving? What about publishing a dataset?

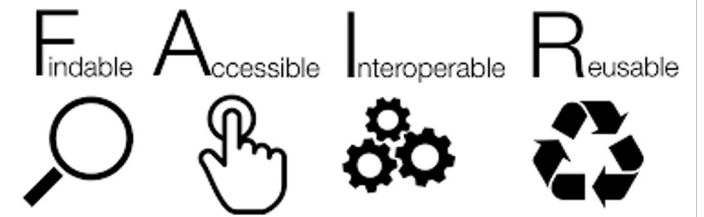
Internal shared drives are useful for colleagues, but aren't the same as publishing a dataset in a repository.

# Repositories & FAIR

A good repository:

- Provides a Persistent Identifier (PID) to your dataset = **Findable**
- Enables the inclusion of rich metadata = **Reusable**
- Allows for human and machine findable and readable metadata = **Findable + Accessible**
- Uses Knowledge Organisation Systems (KOS), such as vocabularies, to improve the quality of metadata = **Reusable**
- Provides long term and easy access to your data = **Accessible + Reusable**
- .....

A good repository  
means FAIR data



# Where to deposit data, or find data for re-use

Depositing sequence data:

- ENA <> GenBank <> DDBJ (share sequences, trustworthy, all use MIBBI)
- Organism domain or species/family-specific databases? In addition, never only

Depositing everything else, or finding (non-sequence) data for re-use?

- Domain-specific repositories likely have more applicable metadata or keywords
- Some institutions or universities have their own repositories, making it easier for you to deposit
- National repositories like DANS-EASY are also good options, but you need to bring in your supervisor

So what else is out there? Browse-by-subject in [Re3Data is a great starting point.](#)



# A convenient tool/site: re3data.org

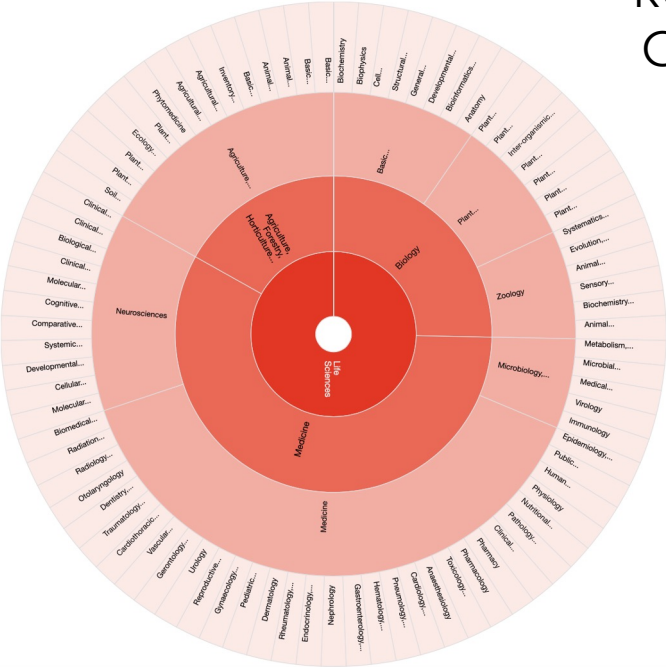
<https://www.re3data.org>

Over 2600 international repositories for a wide spread of domains

Plentiful filters to find appropriate repositories



All Categories



Life Science  
Repositories  
Categories

# But how much can we cover in 25 minutes?

[EMBL-EBI Training](#) > [On-demand training](#) > [Online tutorial](#) > **Bringing data to life**



This online tutorial from EMBL-EBI is self-paced and can provide a great structure for learning data management, but you don't necessarily need it. ∴ recommended for those who want to know more.

# References/Further Reading

- FAIR Aware: <https://fairaware.dans.knaw.nl/>
- Re3Data: <https://www.re3data.org/>
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## Additional resources

- BioSB - Netherlands Bioinformatics and Systems Biology research school: <https://www.dtls.nl/biosb/>
- Additional courses/workshops:
  - EMBL-EBI Course on Research Data Management in Bioinformatics: <https://www.ebi.ac.uk/training/online/courses/bringing-data-to-life-data-management/>
  - DTL page for training: <https://www.dtls.nl/training-and-education/>
  - eScience Center for training: <https://www.esciencecenter.nl/digital-skills/>

# Thanks for your attention!

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FAIR Aware slides: Maaike Verburg

Re3Data slides: Cees Hof

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